Yi2
7398
F 7

On the Time of Sewer

Where pure Air cannot be obtained in
the way that has been mentioned, the fol-
=lowing substitutes for it should be adopted.
1. Removing all the ~~Causes~~ matters which
corrupt the Air, and by Correcting that which
has been rendered impure. Large rooms,
and fires in a Chimney are in Warm
weathers are very proper for this purpose.
Where there is no ~~fireplace~~ Chimney in a room, a
fire should be made upon a large dish
or in a pot in the middle of the room. The
smoke from this fire will in a short time
ascend towards the Ceiling, and cease to
incommode the patient or his Attendants.
The best military hospitals I ever saw
were contrived in this Way by Dr Tilton
of the Delaware State. He preferred
them

with ground floors; for Count Rumford says
= vered that ~~hospitals~~ such floors, and
sand walls, never obtain, nor
propagate the contagious miasmata
generated in hospitals. The poor people
who live in miserable huts in Canton
we are told are generally healthy. These
~~huts~~ huts have all ground floors. The
~~men~~ men ~~who~~ who were employed in Digging
Cellars and sweeping the Streets of Philadelphia
in the year 1793 with one exception on
two escaped the yellow fever of that year.
Fresh earth ~~is~~ not only absorbs &
thus destroys putrid miasmatic exhalations,
but deprives us are told even the poison
of the Rattle Snake of its deadly qualities,
hence Dogs when bitten by them scratch

a hole in the ground, and thrust the
bitten part into it by which means it
is said they do not suffer from it. The
inhabitants of new countries have learned
this practice from their dogs, and em-
-ploy it they say with success to alviate
the poisonous effects of
venemous animals. The efficacy of
smoke in destroying foul air did not
escape Mr. Bruce. He says the poor people
of Arabia who live in smoky houses
suffered much less from the malignant
fevers of that Country than the rich who
lived in were better accommodated. Dr.
Clark tells us further that the Cooks
& of Ships who are constantly expos-
-ed to smoke, generally escape the Ship fever.

But where cavities floors, and smoke are
not to lead, Dr Campbell recommends for
the purpose of purifying the Air of sick
rooms to open a communication with
the external Air by means of two tubes,
near, one in the ceiling
the one ~~above~~ and the other ~~below~~ in or near the
floor, by which means there will be a
constant influx of fresh, and discharge of
foul Air. [A Professor at Turin has recom-
-mended an iron rod painted at both ends, one
of which he advises to be placed in the sick room,
and the other to be thrust thro a door or
window so as to communicate with
the external Air. By this contrivance
he says erotic Air is conducted out of the
room as fast as it formed.]

3 ~~Air is Impure~~ Foul Air is rendered pure by
Deflagrating Nitre in it, or by the

Vapor which is produced by pouring the ~~vitriolic~~ Sulphuric acid upon Nitre, or Common or Salt. The Vapor which escapes in the Nitrous or Muriatic Acid in the form of Gas.

Which persons are defended from the bad effects of impure air by pleasing their beds in the middle of a room, & even permitting them to be surrounded with curtains. By means of this practice Dr. Beardsley of Connecticut stopped the progress of a fatal dysentery in a military hospital in New York during the revolutionary war.

No more persons should be permitted to remain in the room of patients, in the low states of fever than are necessary to attend them, & visitors - friendship

Nurses should never be suffered to sit upon
the Beds of sick. The human frame is expansible to
-sible to respired Air & I have seen lungeon
and fainting induced by in a lady by her
Physician sitting so to go upon a chair
at the head of her bed, when necessary
for him to require a knowledge of the state
of her disease.

6 The Excretions should be received into
~~of the bowels~~ a close stool, or chamber
of Earth filled with Cold water and im-
-mediately afterwards conveyed out of
the sick room. The fœtid odor of the
stools is by this means repressed, and
the purity of the Air ~~by~~ thereby pre-
served. This delicate and humane disco-
very was first suggested by Dr Clarke of
Dreux Castle in England. I have adopted

in any private practice, & have attempted
to introduce it into the Pennsylvania
Hospital. It is a discovery more interesting
and grateful to humanity than that of a
new planet.

The body linen & Mats of patients
in those States of fevers should be changed
every day, & the bodies of the sick should
occasionally be washed with cold water. Vinegar is generally
sprinkled
advised for this purpose, but as the bugs
[illegible]
[illegible]
[illegible]

to our present Subject.

~~From the~~ ~~Other Advantages that~~ ~~arise~~ While all the means which have been mentioned for purifying the Air of sick rooms, contribute to the recovery of the sick, we must not overlook another important Advantage which that arises from an Attention to them, is that Patients are thereby kept from generating an Infection, and thereby propagating it even to their Attendants. Of the efficacy and of the bad consequences of neglect of the rules that have been mentioned Dr Thomas Bland relates the following Instances in one of his Lectures, observed in the Infirmary of the Pennsylvania Hospital. Twelve persons were taken ill with the typhus fever taken from an Irish passenger Ship,

had sent to a house where they were
attended in separate rooms. and were
provided with clean beds & clothing.
by all received, with every marks=
ing the utmost to any of their
wants. Fourteen persons from the same
ship, and with the same fever, were
generally accommodated in another house,
were without clean beds or clothing: they
had all the family that attended them.
The Doctor master of the family died
of the fever which he received from them.
The low by these fevers is rarely known.
ated in the hospitals in great Britain
from the extraordinary cleanliness that is
served in them. In the year 1805 a
number of patients were admitted into our hospital
from

a battery shall with this fever.
Dough combined in some cases, yet
from the ague that was said to be
removed by Peruvian bark.
[illegible] experience of which we are
[illegible] experience: but I have no
[illegible] of its proposing very useful pro-
perties. The preparation of it is [illegible]
[illegible] extensive for common
use. No [illegible] may be

V use from my own experience. —

While we thus attempt to excite the
System thro the medium of the Lungs, we
must not neglect to avail of ourselves of
the advantages which ~~the bowels~~ ~~to~~ ~~lodge~~ ~~upon~~
~~the bowels to lodge upon~~ may be derived from applying ~~stimulants~~
~~Stimulants may be made~~ to the
internal parts of the
= lents to the nose and the bowels.

The stimulants proper for the former
are Ardent Spirits, Bitter & Ammonia,
inhaled or thrust ~~into~~ up the Nose by
means of a feather.

The stimulants proper for the latter ~~are~~
are Injections These should consist of
Bark - Wine - Ardent Spirits - turpentine &
warm Water, the last ~~in~~ to act by its
Quantity as well as its heat.

~~We come next to mention the~~
~~Remedies that act upon the Stimulus upon~~
the blood

by the free use of pure Atmospherical
Air. Arsenic has lately been employed in these
States of Fever, but said with advantage. I can say nothing of its
10 Good Advantages to be derived in the
Use of Steam from inspiring the vapor in
Cooking and posi-

Conversation by which I mean "connected discourse
upon one Subject at a time" and which is widely
different from what is called "talk", that is "loose disjointed Chat"
to use the words of Shakespeare" also from "Gabble" by which
I mean Words uttered with a noise without ideas. I say
Conversation upon light Subjects has often prevented
delirium, but gently excited the three Understanding, &
thus ~~indispo~~ excites the whole System. But our mental
Stimulants should be derived chiefly from the passions.
A Gentleman in the lowest state of typhus fever in Ja-
-maica sent his black boy every morning to know from
whom the Churchbell tolled. The Ringer, tired with his
frequent inquiries, told him one day that it was for

V anger had the same effect upon a Gentleman
in Scotland who sent for ~~him~~ a Clergyman in
the lowest state of fever, & supposing himself
to be on his Deathbed, lamented his having
once published a book against the Christian
Religion, which from the great mischief it
had done, he was afraid would exclude him
from Heaven. The Clergyman, who knew
the Character of the book, said he had nothing
to fear from the mischief it had done, for
that it had been but little read, & had hardly
circulated in his own neighbourhood. 'What is
that you say Sir' - said the dying man, - my book done no mischief! - my
book! - not read out of my neighbourhood! -
- Begone Sir - said he - you are a fool -
to speak thus of my book!' This paroxysm
was over

patriotic Americans delivered this address to
his people. He instantly started from his
encampment
and - called the troops around him;
& soon that movement he was heard to
say: "Now once and the typhus fever
in American
in this country hospital Du-
ring the revolutionary war brought on
him the danger of his falling into the
British
hands of the enemy. This fright inspired
him with much vigor to his body that he could
travel several miles in order to get
out of the way of the enemy. Courage has
several times chased the typhus fever
from the British town by the exertions
it produced in a battle. Love his
was once called the Pennsylvania great
a popular disease. Has sometimes been

V anger had the same effect upon a Gentleman
in Scotland who sent for ~~him~~ a Clergyman in
the lowest state of a fever, & supposing himself
to be on his Deathbed, lamented his having
once published a book against the Christian
Religion, which tion the worst misbehaved
so that the
rage suddenly excited his system, & ~~carried~~
~~of his disease,~~ so not only recovered, but
unhappily lived to relapse into his former infidel
principles & practices. — return to V.

[illegible] delivered this answer to
[illegible] He instantly started from
[illegible] in great haste
[illegible] called the Negro a lying rascal;
[illegible] from that moment he began to
[illegible] Tears ran down the typhus fever
[illegible] American
[illegible] in [illegible] military hospital. De-
[illegible] ing the revolutionary war became [illegible]
[illegible] the danger of his falling into the
[illegible] British
[illegible] the enemy. This fright imparted
[illegible] much vigor to his body that he crawled
[illegible] walled several miles in order to get
[illegible] out of the way of the enemy. Courage has
several times chased the typhus fever
from the British army by the exertions
[illegible] Love has
[illegible] in a battle. ~~[illegible]~~
~~[illegible]~~ the Pennsylvania
~~[illegible]~~ Journals [illegible] ~~[illegible]~~

sometimes recalled the departing knight of
take me to Low Town. He had no
[illegible] a gentleman whom he
thought would not [illegible] to many.
[illegible] do the was attacked with a
[illegible] which he finds denied of
[illegible] life. He [illegible] this husband
[illegible], asked
[illegible] whether she had any request to make
before her death. She said she had, and
that it was permission to the law of
[illegible] which was the
[illegible] She submitted to return, the gift
of which was [illegible] death
was arrested & the soon afterwards
recovered. Appeals were often been

[illegible] sugs
[illegible] natural Affection [illegible] [illegible]
[illegible] love relations to persons in the low
[illegible] of life. Those engaged in the low
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

Vocabulary a word, ~~abandonment~~ to mention
can used associated by habit with pleasure
to you have sometimes

M. Pinkerton saw a little boy
[illegible] in one of those fevers by a physician
[illegible] a little wonder to be
[illegible] this
[illegible] counted
[illegible] at once a light like a beautiful
[illegible] pleasure in her mind.

[illegible] inspired thought to the heart in its
[illegible] table or [illegible] plate. In the [illegible]
[illegible] it was customary when [illegible] meeting
[illegible] the labor of raising a [illegible] Brother
[illegible] the [illegible] office to [illegible]
[illegible] by calling out [illegible] at the time his [illegible]
[illegible] in July [illegible] the [illegible] of the [illegible]
[illegible] the same [illegible] might be used
with advantage in the low plates of [illegible]
[illegible] there are [illegible] when [illegible] a word, and whose spirits would not be
[illegible] by observing [illegible]
[illegible].

But there is one passion which we have
in common and which is so
[illegible] in its gratification, that it can only
be good and that is [illegible]. It should be
[illegible] in our patients in the low plates

upon which the Corpse
in his cell
was placed. Physician — Hard Liquor
United States Marine Service the forenoon
of the 4th in the year 1793
of Yellow Fever in the Epidemic. from Domestic
Object of the ordinary advantage. Also
Patients who visited after the Decease
of Mr. Hutchinson, in the opinion
pined with great solicitude how he was.
Physician mournfully shook his
head with a sigh" how he
could get up again" meaning
was low in his grave. Little
would rise at the general resurrection.
These Cautions should not prevent Our
informing Our patients or their friends
of this change in a delicate way. be
one of the original as well as the

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] in the lungs. [illegible] the [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible] only [illegible]

They ought to be employed in the form of
Vapour in the low Fevers. Pinching
the Skin and flesh have used for the same purpose.
The 3 Class of external Stimulants are —
Cold Water
Heat

With these external Stimulants
should be joined Stimulating injections.
These should be Brandy, Wine, Laudanum,
Acid Spirit &c. in large Quantities.

Obliged by Spirits.

and continued at least one hour to be useful.

and cupping have been performed by wrapping the whole body in Bandages

[illegible] Where they are found in-
[illegible] in removing Bilious [illegible] from the
[illegible] and [illegible] and difficult breath-
[illegible] from the latter is true.

5 teaspoons to the pint of the best Rye
[illegible] in the place of [illegible]. Use in
[illegible] with flour - Afterwards apply Bran-
[illegible] and Kibbled [illegible] in the
[illegible] in the manner recommended
[illegible] and finally knead the
[illegible] of Wheat or Rye flour according to cir-
[illegible]. The [illegible] Catalogue
[illegible] be made to [illegible] the age [illegible]
[illegible] knees. They may likewise be applied
[illegible] and arms.

5 Boiling water is a powerful stimulant
when applied [illegible]
like blisters & should be applied only to
parts of the body near to the head or heart
as a means of relieving pain
- flammation and pain excited by it.

Cantharides Spanish flies, which
are collected in Hungary, Italy
an Arthritic fever
~~fever~~ by a tincture
[illegible]
[illegible]
[illegible]

[illegible] and Arms were found to
be edematous. They were speedily
in the stages which prevailed in Guinea
Coasts of Guinea in the years 1845, 6, 7, 48
in each of which the writer was
fortunate. In almost all cases typical
malignant pustules [illegible]
nothing like [illegible] anthrax pustule.
Here is also [illegible] anthrax [illegible]
different in being the true [illegible]
knee, so as to produce an [illegible] of
the return of the blood. From 20 to 30 [illegible]
incisions were then made in the
by which the blood issued [illegible]
some time by slowly [illegible]
water. From the effects of absorption, and

accidental loss in exhausted persons. I am
disposed to think light of more value
for the sake of power; and from the advan-
tage which I have derived from the
use of light in assisting the removal
of the blood vessels. I am disposed to
prefer the former [illegible]
to the latter. [illegible]
[illegible] by applying
[illegible] first stimulating
[illegible] Egyptian mode of [illegible]
lower extremities. The I spoke formerly
of the advantage of the loss of [illegible]
[illegible] when discharged in a
[illegible] flow or gradual manner. The
blood drawn by dry cups
drawn leaches as were from the blood
vessels, have often saved life in fevers which
were followed the loss of half that quantity
by opening a Vein.

& Light is a pleasant & powerful stimulant
and should be employed in all cases of feeble
action in the blood vessels. The degrees of it

should be regulated in a like manner with the
same case as the temperature of the Air.
3. Sound acts with direct force upon the body
& to the production of the ear. In our latitudes
upon animal life I took notice of its in-
=fluence upon the Systems as a Stimulant.
were we to reason from analogy we could
not help believing in the efficacy of this
remedy. Soldiers march quicker & further
without fatigue from the influence of
martial music than they do without it.
Laborers are exhilirated by a rustic song, and even
Horses are invigorated by it in the Harness, by also
by the sound of bells suspended to their Ears
in a team. But we have facts as well as
analogy in favor of sound in the languid
state of animal life in fevers. Dr Dalrable
tells us he once saw a low fever attended with
delirium suddenly cured by the firing of the
cannon of a ship of War at Cayenne. Dr

V 10 The Sense of Smelling should be exper-
=cised by Stimulants as well as the Sense of
Seeing, Tasting and hearing, by means of Spirit
- Other Smells and other Substances capable of
acting upon the Nose. In the Spotted Fever
of Connecticut in 1809, great advantages
were derived from shooting a feather up
the Nose dipped in Spt Lot of Hartsh-
=horn.

Despitch informed me that he had a severe
a Woman
Dysentery ~~life~~ life apparently Dead from
a fever resuscitated by the loud Screams of a
friend who at the instant of the supposed
-ed extinction of her life. — A Captain
Woodward of Boston who was lately a prisoner
among the Malays in India says the natives
make it a practice to beat a Drum at the
doors of persons ill with fevers. These Savages
prescribe only for the name of the disease,
but I have no doubt this noisy remedy often
precedes in those cases of their fevers in
which stimulants are indicated.

10th The last stimulating remedy that I shall
mention in low fevers is the Affusion of
cold water. I cannot recommend it
from any own experience, but from the
former observings upon its modus operandi
& & and from the testimonies of D^r Rush
and D^r Jackson in its favor, I have no

doubt of its safety & efficacy, provided it be used before the system has descended below the reacting point. The impulse or stimulus derived from the descent of the water upon its usual height upon the body ensures to a certain degree this reaction, & gives Affusion a great advantage over being applied without as it accompanying stimulus produces only sedative effects, and adds to the weakness of the system. In favor of the stimulus imparted to the watery Affusion Dr Jackson tells us that Soldiers feel less fatigue when exposed to the rain than when they encamp in Dry weather. Some its ~~incitation~~ stimulating impression upon their bodies than when they march in Dry weather. [Even plants we know thrive more than rain than from Dew, or water applied to their roots, and from the same cause. ~~Thus the inspiration of Wind on sail~~ formerly

To ensure the salutary effects of the
~~To ensure the~~ Affusion of cold water upon
the body ~~Caution in its salutary effects~~ Dr
Jackson very properly advises the previous
tion of warm water — Spirit of turpentine,
ammoniated Spirit — lime juice — or a Solu-
tion of Nitre in Vinegar to the Skin in
order to awaken in it a susceptibility to
the action of the Water. He advises further
to give Cordial Drinks, particularly Wine
at the same time in order to assist the
reaction of the System, or to give the fluids
a centrifugal direction. Tepid water should
be prefered for the purpose of Affusion
in the low State of fever. There can be but
one Objection to this remedy, and that the
difficulty of applying it. for that it will
not be safe to take the patient out of his bed
and it will require a greater number of
Attendants, and a larger Apparatus of beds

and linnen than is to be met with in
most families. In public hospitals it
might be used with more advantage, &
in private families provided large & soft
flats were placed under the patients to
defend the beds upon which they lie, for
no water should
they ~~should not~~ be suffered to remain
in contact with their bodies after they have
been exposed to its affusion. It should be
carefully wiped off with a dry clouth. The
gentle friction with the clouth aids the
action of the system. The permanent applic-
ation of the water to the body from its feeble
state would produce debative effects, & thus
encrease the disease.

Having enumerated the remedies for
the low states of fever I shall now add a
few cautions connected with their treatment,
which could not be
brought in under any of the former heads

Of our remedies."

1 Beware of forcing Sweats in the states of fever. They are a depleting remedy, and as improper as bloodletting in the ~~feeble~~ ~~state of System and~~ wasted state of the fluids and feeble state of the System which take place in these fevers. Even when they are spontaneous they generally precede death, for they arise from great and Universal debility from action & Obstruction. Morgagni describes a malignant fever in Italy in which patients died with profuse Sweats, while their physicians were encouraging their friends to expect a happy issue from them. Sir John Pringle bears in Resolut the testimony which the testimony against them, and relates in the history of the case of a Mate in one of the hospitals in which they were tried without effect on the 4th or 5th about the 14th Days of his fever. Sir John very justly

that a moisture upon the skin in protracted
fevers of the typhus grade is salutary. I have
witnessed this often, and seldom without
ending in a recovery.

2 Beware of giving purges in the low states
of fever. One stool a day and that obtained by
means of a Glyster will be sufficient in most
cases. But where the weakness is extreme, no
= disadvantage will arise from the bowels being
= restricted two or three days, - on the con-
-trary an advantage, for the stimulus of the
faces and the distention of the lower bowels,
from their accumulation, add to the
efficacy of our stimulating remedies.
I believe has often followed a
Death ~~occurred~~ ~~from~~ copious stool in this state of the System.
I except from this caution the typhus
states of fever whether erition or spavion
when they occur in the Autumn, and